



State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

P. O. Box 19506, Springfield, IL 62794-9506

217/782-2113

OPERATING PERMIT

PERMITTEE

Winnebago Reclamation Service, Inc.
Attn: Gary L. Marzorati
4920 Forest Hills Road
Loves Park, IL 61111

Application No.: 94070003

I.D. No.: 201801AAF

Applicant's Designation: FLARE-WRS

Date Received: January 14, 1997

Subject: Flare Station

Date Issued: February 4, 1997

Operating Permit Expiration

Date: February 4, 2002

Location: 8403 Lindenwood Road, Rockford

Permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of a flare station for combustion of landfill gas as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

1. The flare station shall be operated and maintained for effective combustion of landfill gas. Flame monitor(s) shall be installed, operated and maintained on the flare system to confirm the presence of a flame when landfill gas is being fed.
2. The landfill gas consumption of the flare station in million cubic feet (mcf) shall not exceed 1.44 mcf/day and 525.6 mcf/year.
- 3a. Emissions of nitrogen oxides (NO_x), carbon monoxide (CO), sulfur dioxide (SO₂) and volatile organic material (VOM) and operation of the flare station shall not exceed the following limits:

Emission <u>Source</u>	Gas Flow	E M I S S I O N S							
	Rate (scfm)	NO _x	CO	SO ₂	VOM				
		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Flare Station	1000	2.7	11.83	19.0	83.22	0.8	3.5	1.1	4.82

The NO_x, CO and SO₂ emission limits are based on the maximum gas flow rate allowed and using standard emission factors. The VOM emission limits are based on the maximum concentration of VOM in the landfill gas of 4,000 PPMV measured as hexane at a maximum flow rate of 1,000 scfm and the flare achieving a destruction efficiency of 98%.

- b. This permit is issued based on negligible emissions of particulate matter from the flare station. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.
- c. Compliance with annual limits shall be determined from a running total of 12 months of data.

4. The Permittee shall install, maintain and operate a continuous monitoring system to monitor and record the fuel consumption for the flare station.
- 5a. The Permittee shall sample and analyze the landfill gas entering the flare station at least once every six months for net heating value, methane, sulfur compounds and non methane organic materials. A report of the analysis result must be submitted to the Agency within 30 days of the sampling.
- b. The Agency will revise this requirement to allow for annual analysis of the landfill gas upon written request from the Permittee, if the Permittee can demonstrate that the measured values remain relatively constant based on the gas analysis data of at least two years.
- 6a. The Permittee shall keep the following records:
 - i. The landfill gas consumption by the flare station, on a daily basis.
 - ii. Record of flare station inspection/maintenance completed log, and operating condition of the flare station. This log should at least include the following:
 - A. Date of inspection.
 - B. Date maintenance performed and completed.
 - C. Type of maintenance needed.
- b. The Permittee shall keep records of the sampling and analysis of landfill gas required by Condition 5.
7. All records required by this permit shall be retained at a readily accessible location at the plant for at least 3 years from the date of entry and shall be made available for inspection and copying by the Agency upon request.
8. Upon exceedance of the requirements of this permit determined by the records required by this permit or any violation of the requirements of this permit, the Permittee shall submit a report to the Agency within 30 days after the exceedance. The report shall include the hourly emissions occurring during the times of exceedance, a copy of the relevant records and a description of the exceedance or violation and efforts to reduce emissions and future occurrences. This report should be sent to:

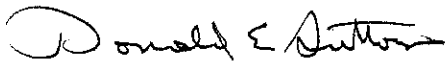
Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
1340 North Ninth Street
P.O. Box 19276
Springfield, Illinois 62794-9276

9. With the Annual Emission report required to be submitted to the Agency pursuant to 35 Ill. Adm. Code Part 254, the Permittee shall report the annual emissions of nitrogen oxides, volatile organic material, carbon monoxide, and sulfur dioxide with supporting calculations and a description of any exceedance of applicable limitations of this permit, if not previously reported.

It should be noted that this permit has been revised to include operation of the equipment described in construction permit 97010035.

It should also be noted that the issuance of this permit supersedes all other permit(s) issued under this application number.

If you have any questions on this, please call Rizwan Syed at 217/782-2113.



Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:RS:jar

cc: Region 2



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

**STANDARD CONDITIONS
FOR
OPERATING PERMITS**

July 1, 1985

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) grants the Environmental Protection Agency authority to impose conditions on permits which it issues.

The following conditions are applicable unless superseded by special permit condition(s).

1. The issuance of this permit does not release the permittee from compliance with state and federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statutes and regulations of the United States or the State of Illinois or with applicable local laws, ordinances and regulations.
2. The Agency has issued this permit based upon the information submitted by the permittee in the permit application. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation under 35 Ill. Adm. Code 201.207.
3.
 - a. The permittee shall not authorize, cause, direct or allow any modification, as defined in 35 Ill. Adm. Code 201.102, of equipment, operations or practices which are reflected in the permit application as submitted unless a new application or request for revision of the existing permit is filed with the Agency and unless a new permit or revision of the existing permit(s) is issued for such modification.
 - b. This permit only covers emission sources and control equipment while physically present at the indicated plant location(s). Unless the permit specifically provides for equipment relocation, this permit is void for an item of equipment on the day it is removed from the permitted location(s) or if all equipment is removed, notwithstanding the expiration date specified on the permit.
4. The permittee shall allow any duly authorized agent of the Agency, upon the presentation of credentials, at reasonable times:
 - a. to enter the permittee's property where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit,
 - b. to have access to and to copy any records required to be kept under the terms and conditions of this permit,
 - c. to inspect, including during any hours of operation of equipment constructed or operated under this permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this permit,
 - d. to obtain and remove samples of any discharge or emission of pollutants, and
 - e. to enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring or recording any activity, discharge or emission authorized by this permit.
5. The issuance of this permit:
 - a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are located,
 - b. does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the facilities,